

Date:

Grade 7: Math

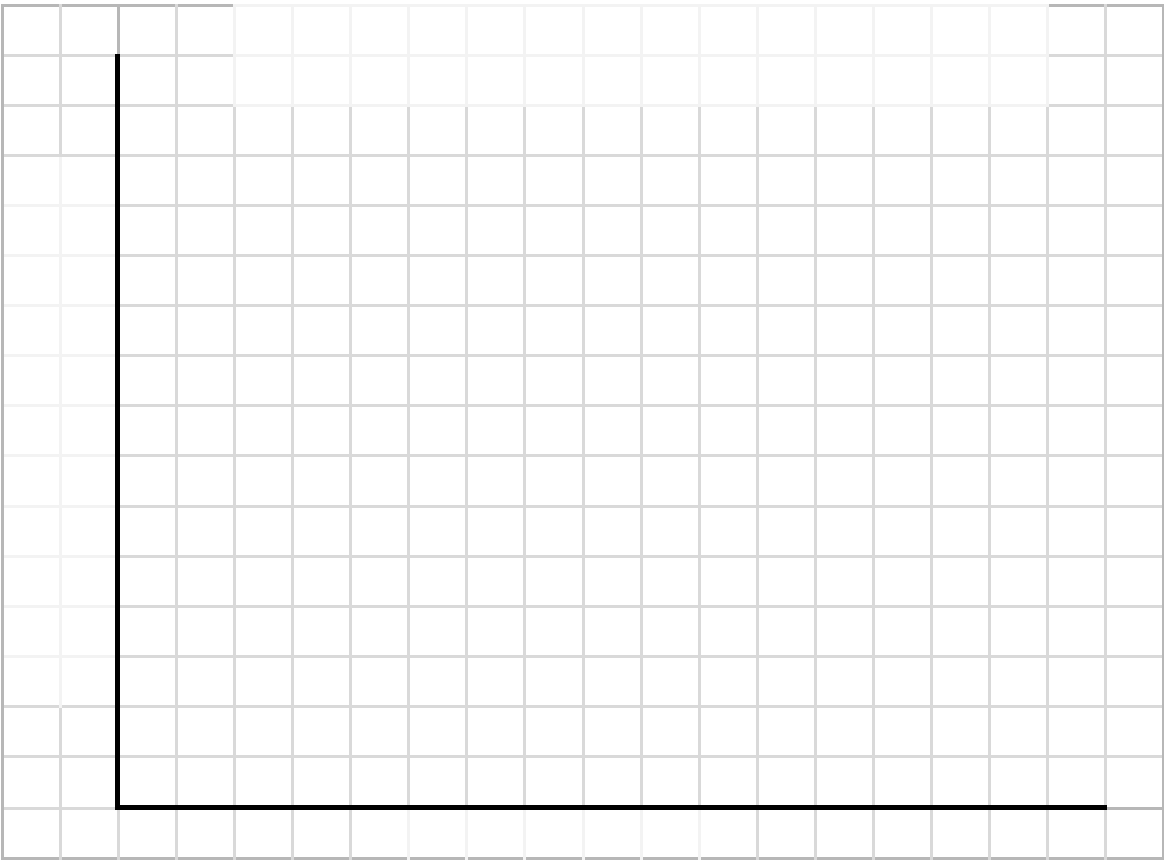
5.4 Line Graphs

- Numerical data can be represented using Line Graphs.

1. The table below shows the height of a tree as it grows.

Age (yrs)	5	10	15	20	25	30	35	40
Height (m)	2	4	8	10	12	14	16	18

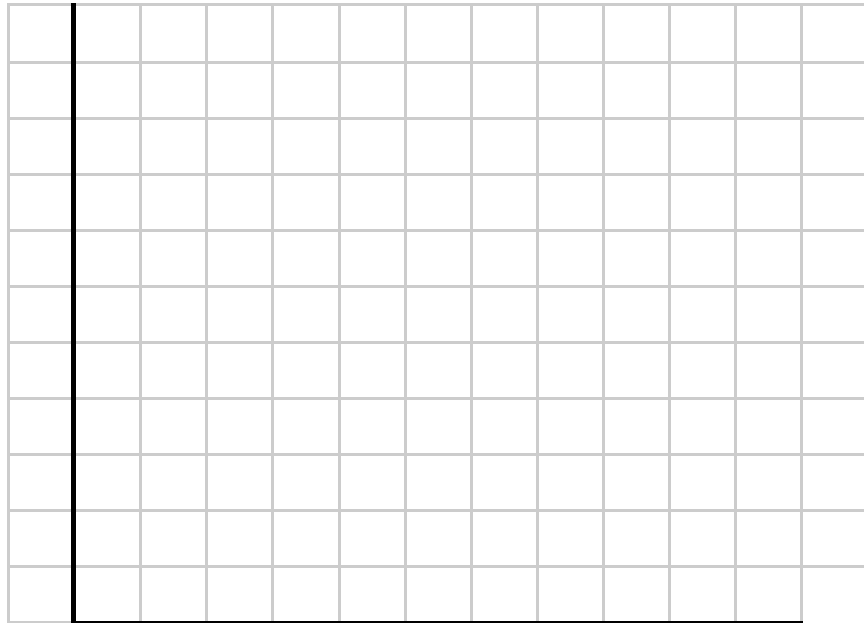
- Plot the information on the graph below.



- Looking at your line graph describe the trend.
- Predict what the height of the tree would be when it was 11 years old.
- Predict the height of the tree when it was 2 years old.
- At what age will the height of the tree be 20m tall?

2. The table below shows the monthly cost of cell phone plans from two companies, Bell and Rogers.

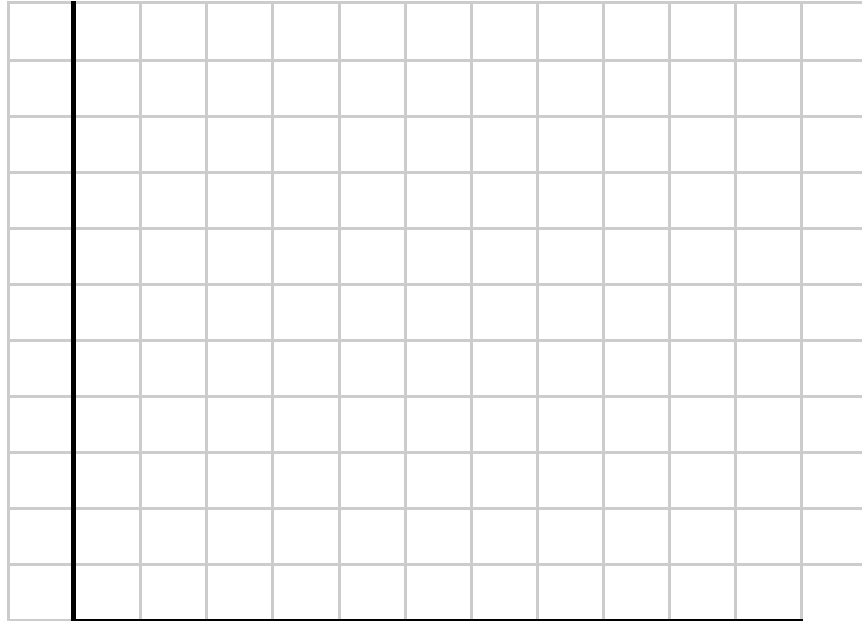
Month	B	R
1	25	10
2	30	20
3	35	30
4	40	40
5	45	50
6	50	60
7	55	70
8	60	80
9	65	90
10	70	100



- Plot both data on the same grid.
- Which plan would Jack prefer if he wanted to use the phone for 3 months?
- Which plan would you prefer if you wanted to use the phone for 7 months?
- Ms. Philip says it did not matter which company she chose. For how long do you think Ms. Philip will be using the phone? What did she pay?

3. Netflix and Shomi are bringing up a new promotion. The table below shows the monthly costs.

Month	N	S
1	15	10
2	20	20
3	25	30
4	30	40
5	35	50
6	40	60
7	45	70
8	50	80
9	55	90
10	60	100



- Plot both data on the same grid.
- Sofia wants to use the service for a month which service should she use?
- Which plan would be better for Simon if he wants to use the service for 6 months?

- Homework:** Complete problems 1- 5 from the textbook page 191-192.